



NP18-12R NP18-12RFR

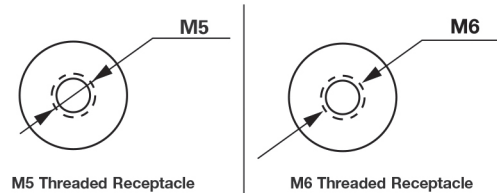
Sealed Rechargeable
Lead-Acid Battery
12V, 17.2Ah



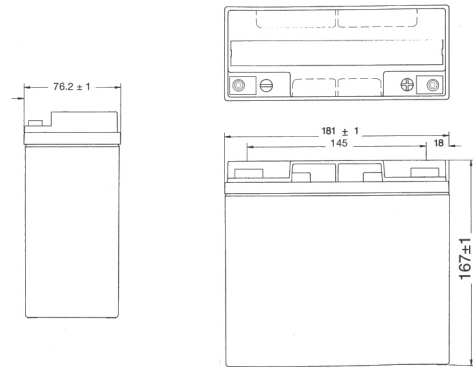
Specifications

Nominal Voltage: 12V	Charge Retention (shelf life) at 20°C: 12V
Nominal Capacity at 25°C: 20 hr. rate of 0.86A to 10.5V 17.2Ah 10 hr. rate of 1.51A to 10.5V 15.1Ah 5 hr. rate of 2.79A to 10.2V 13.95Ah 1 hr. rate of 11.97A to 9.60V 11.97Ah	1 month 97% 3 month 91% 6 Months 85%
Weight (approx.): 6.17 kgs	Sealed construction Can be operated in any position without leakage
Energy Density (20 hr. rate): 90 WH/litre	Standard Terminal: M5 or M6 Threaded Receptacle
Specific Energy (20 hr. rate): 33.5 WH/kg	Housing material: ABS Resin
Internal resistance of charged battery: 15 milliohms (approx.)	Optional: Container and cover made from Flame Retardant ABS (UL94-V0/L.O.I.>28%) - FR type only
Maximum discharge current with standard terminals: 150 amperes	Standards: The management systems governing the manufacture of this product are ISO 9001:2008 and ISO 14001:2004 certified
Maximum short-duration discharge current: 450 amperes	VdS Approved Valve-Regulated Lead-Acid battery
Operating Temperature Range: Charge -15°C to 50°C Discharge -20°C to 60°C	

Terminal



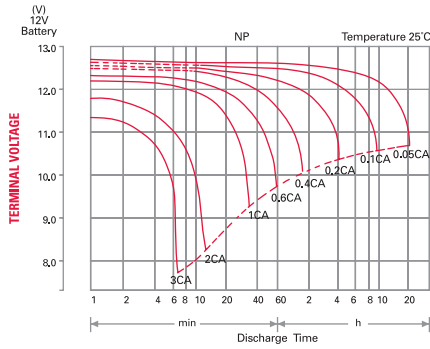
Dimensions



Dimensions: mm

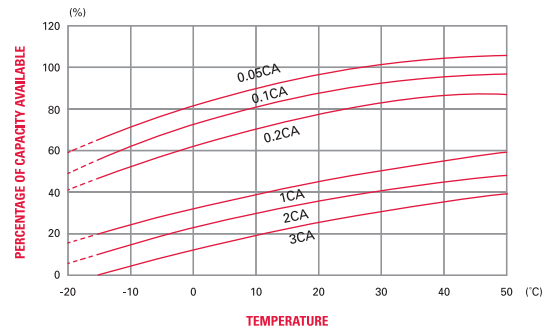


Discharge characteristic curves at 25°C



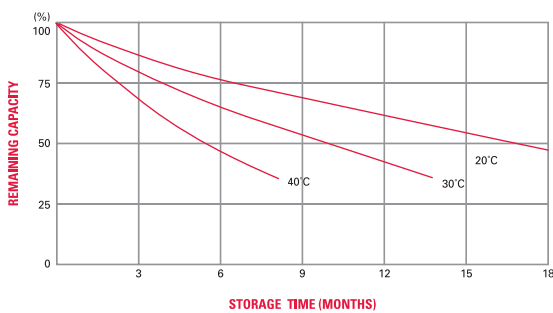
Ref.: Genesis® NP/DataSafe® NPX RS 003 - Mar 2014; Page 4

Temperature effects in relation to battery capacity



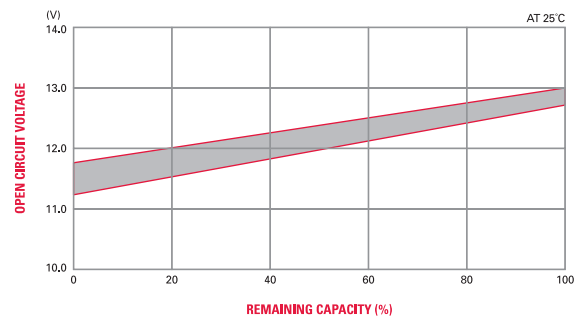
Ref.: Genesis NP/DataSafe NPX AM 003 - Jan 2011; Page 7, Fig. 4

Self discharge characteristics



Ref.: Genesis NP/DataSafe NPX AM 003 - Jan 2011; Page 9, Fig. 5

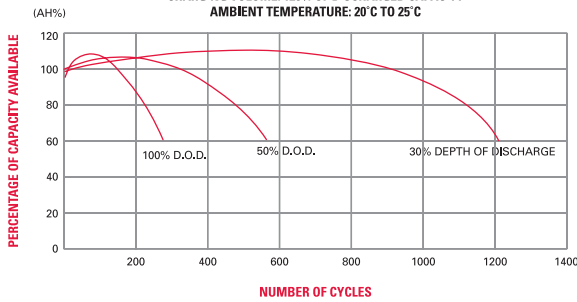
Open circuit voltage vs remaining capacity



Ref.: Genesis NP/DataSafe NPX AM 003 - Jan 2011; Page 9, Fig. 6

Cycle service life in relation to depth of discharge

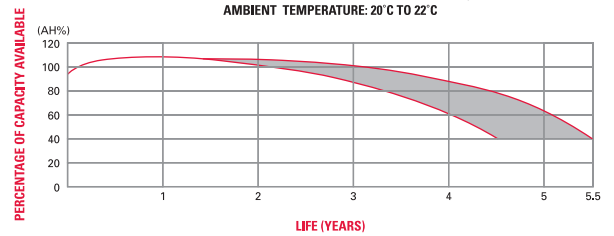
TESTING CONDITIONS DISCHARGE CURRENT: 0.17C AMP. (FV. 1.7V/CELL)
CHARGING CURRENT: 0.09C AMP.
CHARGING VOLUME: 125% OF DISCHARGED CAPACITY
AMBIENT TEMPERATURE: 20°C TO 25°C



Ref.: Genesis NP/DataSafe NPX RS 003 - Mar 2014; Page 4

Float service life

TESTING CONDITIONS FLOATING VOLTAGE 2.25 TO 2.30V/CELL
AMBIENT TEMPERATURE: 20°C TO 22°C



Ref.: Genesis NP/DataSafe NPX RS 003 - Mar 2014; Page 4

Do not operate at 3C or more current continuously.

CHARGING METHODS (at 20°C)

Cycle use: Maximum charging current 4.3A

Charging voltage: 14.4 to 15.0V

Standby use: Float charging voltage 13.50 to 13.80V

CAUTION

- Avoid short circuit
- Do not charge in sealed container



EnerSys World Headquarters
2366 Bernville Road, Reading,
PA 19605, USA
Tel: +1-610-208-1991 /
+1-800-538-3627

EnerSys EMEA
Baarerstrasse 18,
6300 Zug
Switzerland

EnerSys Asia
152 Beach Road,
Gateway East Building #11-03,
Singapore 189721
Tel: +65 6508 1780

Contact: